EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	129	706/19.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/18 19:10
L2	511	702/6.ccls.	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:11
L3	70747	((neural neuron neuronic neuronal) adj (net network)) (artificial adj intelligence) ai inference neuralnet ((computer machine) adj learning) (expert adj system)	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:13
L4	144310	(genetic adj1 algorithm) GA	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:13
L5	6	((multi-objective) (multi adj objective)) adj fitness adj function	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:14
L6	2093	negative adj1 correlation	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:14
L7	52	((open adj1 hole) (case adj1 hole)) near2 (logging adj1 (data tool))	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:15
L8	644	pulsed adj1 neutron	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:15
L9	1225	(well adj1 logging adj1 tool) (well adj1 log adj1 data) (well adj1 log adj1 input)	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:16
L10	23	(neural adj (net network)) adj ensemble	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:17
L11	5496	3 and 4	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:17
L12	5	11 and 5	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:18
L13	83	11 and 6	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:18
L14	3	13 and 7	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:20
L15	6878	well near2 (log record)	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:20
L16	5	4 and 10 and 6	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:21
L17	1	9 and 10	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:21
L18	5	4 and 10	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:22

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L19	1	8 and 9 and 10	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:23
L20	1	5 and 10	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:23
L21	448	706/15.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/18 19:23
L22	5	10 and L21	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:24
L23	0	8 and 1	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:25
L24	1	10 and 1	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:25
L25	64	3 and 4 and 21	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:26
L26	3	25 and 8	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:26
L27	12	1 and 3 and 4	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:27
L28	0	1 and 8	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:27
L29	0	1 and 5	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:28
L30	1	1 and 10	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:28
L31	0	2 and 3 and 4 and 5	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:29
L32	41	2 and 3	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:32
L33	1	2 and 3 and 4	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:32
L34	1	((individual adj neural adj networks) AND (synthetic adj output) AND (geophysical adj parameter) AND well AND (genetic adj algorithm) AND ((multi-objective or (multi adj objective)) adj fitness adj function) AND ensemble).clm.	US-PGPUB; USPAT	OR	OFF	2007/06/18 19:36

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L36	0	((log adj data) AND (pulsed adj neutron) AND (logging adj tool) AND synthetic AND (open adj hole adj logs) AND (neural adj network adj ensemble) AND (genetic adj algorithm) AND ((multi-objective or (multi adj objective)) adj fitness adj function)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/18 19:44
L37	1	((individual adj neural adj networks) AND output AND (pulsed adj neutron) AND (well adj log) AND (input adj data) AND (genetic adj algorithm) AND ((multi-objective or (multi adj objective)) adj fitness adj function)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/18 19:43
L38	0	((log adj data) AND (pulsed adj neutron) AND (logging adj tool) AND synthetic AND (open adj hole adj logs) AND (neural adj network adj ensemble) AND (genetic adj algorithm) AND (multi-objective or (multi adj objective)) adj fitness adj function).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/18 19:46
S1	447	706/15.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/18 19:10

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1   Genetic algorithms: Evolving neural network ensembles for control problems   ◼
◈   David Pardoe, Michael Ryoo, Risto Miikkulainen
    June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**
    Publisher: ACM Press
    Full text available: 🅰 pdf(121.49 KB)   Additional Information: full citation, abstract, references, index terms

> In neuroevolution, a genetic algorithm is used to evolve a neural network to perform a particular task. The standard approach is to evolve a population over a number of generations, and then select the final generation's champion as the end result. However, it is possible that there is valuable information present in the population that is not captured by the champion. The standard approach ignores all such information. One possible solution to this problem is to combine multiple individuals fro ...

> **Keywords:** ensembles, genetic algorithms, neural networks, reinforcement learning

2   Ensemble Pruning Via Semi-definite Programming   ◼
    Yi Zhang, Samuel Burer, W. Nick Street
    December 2006 **The Journal of Machine Learning Research**, Volume 7
    Publisher: MIT Press
    Full text available: 🅰 pdf(291.31 KB)   Additional Information: full citation, abstract

> An ensemble is a group of learning models that jointly solve a problem. However, the ensembles generated by existing techniques are sometimes unnecessarily large, which can lead to extra memory usage, computational costs, and occasional decreases in effectiveness. The purpose of ensemble pruning is to search for a good subset of ensemble members that performs as well as, or better than, the original ensemble. This subset selection problem is a combinatorial optimization problem and thus findi ...

3   Learning Classifier systems and other genetics-based machine learning: papers: ◧
◈   **Evolving ensemble of classifiers in random subspace**
    Albert Hung-Ren Ko, Robert Sabourin, Alceu de Souza Britto
    July 2006 **Proceedings of the 8th annual conference on Genetic and evolutionary computation GECCO '06**
    Publisher: ACM Press
    Full text available: 🅰 pdf(179.26 KB)   Additional Information: full citation, abstract, references, index terms

Various methods for ensemble selection and classifier combination have been designed to optimize the results of ensembles of classifiers. Genetic algorithm (GA) which uses the diversity for the ensemble selection could be very time consuming. We propose compound diversity functions as objective functions for a faster and more effective GA searching. Classifiers selected by GA are combined by a proposed pairwise confusion matrix transformation, which offer strong performance boost for EoCs.

Keywords: combining classifiers, confusion matrix, diversity, ensemble of learning machines, fusion function, majority voting, pattern recognition

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4 Market-based recommendation: Agents that compete for consumer attention

Sander M. Bohte, Enrico Gerding, Han La Poutré
November 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 4
Publisher: ACM Press

Full text available: pdf(616.32 KB)   Additional Information: full citation, abstract, references, citings, index terms

The amount of attention space available for recommending suppliers to consumers on e-commerce sites is typically limited. We present a competitive distributed recommendation mechanism based on adaptive software agents for efficiently allocating the "consumer attention space," or banners. In the example of an electronic shopping mall, the task is delegated to the individual shops, each of which evaluates the information that is available about the consumer and his or her interests (e.g. keywor ...

Keywords: ACE, agent-based computational economics, competitive multi-agent systems, electronic markets, learning agents, market-based programming, recommendation systems

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5 Nonlinear Boosting Projections for Ensemble Construction

Nicolás García-Pedrajas, César García-Osorio, Colin Fyfe
May 2007 **The Journal of Machine Learning Research**, Volume 8
Publisher: MIT Press
Full text available: pdf(10.56 MB)   Additional Information: full citation, abstract

In this paper we propose a novel approach for ensemble construction based on the use of nonlinear projections to achieve both accuracy and diversity of individual classifiers. The proposed approach combines the philosophy of boosting, putting more effort on difficult instances, with the basis of the random subspace method. Our main contribution is that instead of using a random subspace, we construct a projection taking into account the instances which have posed most difficulties to previous ...

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6 Research track papers: A general framework for accurate and fast regression by data summarization in random decision trees

Wei Fan, Joe McCloskey, Philip S. Yu
August 2006 **Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining KDD '06**
Publisher: ACM Press
Full text available: pdf(4.67 MB)   Additional Information: full citation, abstract, references, index terms

Predicting the values of continuous variable as a function of several independent variables is one of the most important problems for data mining. A very large number of regression methods, both parametric and nonparametric, have been proposed in the past. However, since the list is quite extensive and many of these models make rather explicit, strong yet different assumptions about the type of applicable problems and involve a lot of parameters and options, choosing the appropriate regression m ...

Keywords: decision trees, random, regression

7 Cluster ensembles --- a knowledge reuse framework for combining multiple partitions ▄
Alexander Strehl, Joydeep Ghosh
March 2003 **The Journal of Machine Learning Research**, Volume 3
Publisher: MIT Press

Full text available: 🔲 pdf(842.50 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper introduces the problem of combining multiple partitionings of a set of objects into a single consolidated clustering *without* accessing the features or algorithms that determined these partitionings. We first identify several application scenarios for the resultant 'knowledge reuse' framework that we call *cluster ensembles*. The cluster ensemble problem is then formalized as a combinatorial optimization problem in terms of shared mutual information. In addition to a direct ...

Keywords: cluster analysis, clustering, consensus functions, ensemble, knowledge reuse, multi-learner systems, mutual information, partitioning, unsupervised learning

8 Technical Correspondence: A neural net compiler system for hierarchical organization ▄
◆ Rajeev Kumar
February 2001 **ACM SIGPLAN Notices**, Volume 36 Issue 2
Publisher: ACM Press

Full text available: 🔲 pdf(954.76 KB)   Additional Information: full citation, abstract, references

We present a language framework for handling arbitrarily complex neural computations. The software architecture - which we call an *A*rtificial *N*eural Network *C*ompiler for *H*ierarchical *OR*ganization (*ANCHOR*) - facilitates network hierarchy and simpler sub-mappings. We define a **N**et **D**efinition **L**anguage (NDL) which is implemented in object-oriented programming paradigm; a trained network is decompiled bac ...

Keywords: compiler-decompiler, hierarchical networks, neural net definitions, neural programming language, superneuron

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